

Title (en)
METHOD AND APPARATUS OF TEMPORAL MOTION VECTOR PREDICTION

Title (de)
VERFAHREN UND VORRICHTUNG ZUR VORHERSAGE ZEITLICHER BEWEGUNGSVEKTOREN

Title (fr)
PROCÉDÉ ET APPAREIL DE PRÉDICTION TEMPORELLE DE VECTEUR DE MOUVEMENT

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Application
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Abstract (en)
[origin: US2012008688A1] An apparatus and method for motion vector prediction for a current block in a picture are disclosed. In video coding systems, the spatial and temporal redundancy is exploited using spatial and temporal prediction to reduce the information to be transmitted. Motion Vector Prediction (MVP) has been used to further conserve the bitrate associated with motion vector. In conventional temporal MVP, the predictor is often based on a single candidate such as the co-located motion vector in the previous frame/picture. If the co-located motion vector in the previous frame/picture does not exist, the predictor for the current block is not available. A technique for improved MVP is disclosed where the MVP utilized multiple candidates based on co-located motion vectors from future and/or past reference pictures. The candidates are arranged according to priority order to provide better availability of MVP and also to provide more accurate prediction. Furthermore, the MVP technique disclosed can be operated in a closed-loop fashion so that no additional side information or minimum additional side information is required.

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US 2012008688 A1 20120112; **US 9124898 B2 20150901**; AU 2011278851 A1 20121129; AU 2011278851 B2 20140508; BR 112012027263 A2 20160726; BR 112012027263 A8 20170711; BR 112012027263 B1 20210817; CA 2794379 A1 20120119; CA 2794379 C 20171017; CN 102934434 A 20130213; CN 102934434 B 20160330; CN 105704495 A 20160622; CN 105704495 B 20181026; EP 2559252 A1 20130220; EP 2559252 A4 20140827; JP 2013529877 A 20130722; JP 5788979 B2 20151007; KR 101709003 B1 20170223; KR 20130021388 A 20130305; KR 20150091271 A 20150810; US 2015326876 A1 20151112; US 9961364 B2 20180501; WO 2012006889 A1 20120119

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